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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-05-08-01**	**Date: 09-05-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.	
Project Name	:	Construction of open gym at Shankar Nag Park in ward No.04.	
Agency	:	Sri N.N Srinivasaiah No.2405, E Block Sahakara Nagar, Banagalore.	
Customer's Reference	:	EE(YNM.D)E-PMT-07/W.O/20/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	08-05-17	
Sample ID No	:	2017-05-08-01/01	
Sample Type	:	Indus	
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.	
Date of test:	:	08-05-17	

SLNo	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Indus	Fe500	8	0.390	537	651	19.5%	Satisfactory	Satisfactory
2	Indus	Fe500	10	0.615	552	572	21.0%	Satisfactory	Satisfactory
3	Indus	Fe500	12	0.887	572	588	20.0%	Satisfactory	Satisfactory

Note:

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Prepared By:
Harshitha

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TEST REPORT OF FINE AGGREGATE

Date: 06-05-17

Lab ID	:	**CP-2017-05-03-04**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of open gym at Shankar Nag Park in ward No.04.
Agency	:	Sri N.N Srinivasaiah No.2405, E Block Sahakara Nagar, Banagalore.
Customer's Reference	:	EE(YNM.D)E-PMT-07/W.O/20/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-17
Sample ID No	:	2017-05-03-04-03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	03-05-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	32	32	3.2	96.8	90-100	90-100	90-100	95-100
3	2.36 mm	204	236	23.6	76.4	60-95	75-100	85-100	95-100
4	1.18 mm	167	403	40.3	59.7	30-70	55-90	75-100	90-100
5	600 micron	201	604	60.4	39.6	15-34	35-59	60-79	80-100
6	300 micron	211	815	81.5	18.5	5-20	8-30	12-40	15-50
7	150 micron	134	949	94.9	5.1	0-10	0-10	0-10	0-15
8	Pan	51	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-05-03-04** **Date: 06-05-17**

Sample ID No : 2017-05-03-04-03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.21	–
2	Specific Gravity	2.57	–
3	Material finer than 75 micron(%)	5.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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CEMENT CONCRETE FLOORING TILES

Lab ID	:	CP-2017-05-08-01 **Date: 11-05-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division,
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of open gym at Shankar Nag Park in ward No.04.
Agency	:	Sri N N Srinivasaiah No.2405, E Block Sahakara Nagar, Banagalore.
Customer Reference	:	EE(YNM.D)E-PMT-07/W.O/20/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-05-17
Sample ID No	:	2017-05-08-01/03
Sample Type/ Size	:	Pre-Polished Designer Cement Concrete Tiles
Reference to BIS codes	:	IS 1237:2012
Date of test	:	08-05-17

1.Wet Transverse Strength

Sl.No.	Dimension (mm)			Wet Transverse Strength	Average	Requirement as per IS:1237-2012
	L	B	T	(N/mm^2)	(N/mm^2)	
1	400	400	25.14	7.5	7.88	The average wet transverse strength shall not be less than $3N/mm^2$
2	400	400	25.12	8.1		
3	400	400	25.13	7.7		
4	400	400	25.05	7.9		
5	400	400	25.18	8.2		
6	400	400	25.14	7.9		

2. Water Absorption

Sl.No.	Dimension (mm)			Water Absorption	Average	Requirement as per IS:1237-2012
	L	B	T	(%)	(%)	
1	400	400	25.11	2.15	2.76	The average percentage of water absorption shall not exceed 10.
2	400	400	25.32	3.01		
3	400	400	25.47	2.92		
4	400	400	25.12	2.75		
5	400	400	25.16	2.82		
6	400	400	25.08	2.91		

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	CP-2017-05-08-01	Date: 12-05-17
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.	
Project Name	:	Construction of open gym at Shankar Nag Park in ward No.04.	
Agency	:	Sri N.N Srinivasaiah No.2405, E Block Sahakara Nagar, Banagalore.	
Customer's Reference	:	EE(YNM.D)E-PMT-07/W.O/20/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	08-05-17	
Sample ID No	:	2017-05-08-01/02	
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	08/05/2017	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.02	165.49	2.985	7856	139.5	17.8	16.5	20.6
2	B	100.05	165.51	2.895	7860	142.1	18.1	18.1	22.6
3	C	100.04	165.52	2.915	7859	141.7	18.0	18.0	22.5

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2017-05-16-03
tomer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
dress	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
oject Name	:	Construction of open gym at Shankar Nag Park in ward No.04.
gency	:	Sri N.N Srinivasaiah No.2405, E Block Sahakara Nagar, Banagalore.
Customer's Reference	:	EE(YNM.D)E-PMT-07/W.O/20/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-05-17
Sample ID No	:	2017-05-16-03/01
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date: 20/05/2017

Date of test : 20/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	13/05/2017	20/05/2017	149.22 X 150.24 X 150.66	22419	8.212	399.1	17.8	17.7
2	M20 Concrete	M20	13/05/2017	20/05/2017	150.47 X 150.21 X 150.69	22602	8.174	409.1	18.1	
3	M20 Concrete	M20	13/05/2017	20/05/2017	150.22 X 150.47 X 150.24	22604	8.165	386.5	17.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2017-05-16-03 **Date: 10/06/2017**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of open gym at Shankar Nag Park in ward No.04.
Agency	:	Sri N.N Srinivasaiah No.2405, E Block Sahakara Nagar, Banagalore.
Customer's Reference	:	EE(YNM.D)E-PMT-07/W.O/20/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-05-17
Sample ID No	:	2017-05-16-03/02
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	10/06/2017

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	13/05/2017	10/06/2017	149.21 X 149.33 X 150.22	22282	8.145	514.7	23.1	23.3
2	M20 Concrete	M20	13/05/2017	10/06/2017	149.65 X 150.27 X 150.44	22488	8.179	528.5	23.5	
3	M20 Concrete	M20	13/05/2017	10/06/2017	150.46 X 150.47 X 150.68	22640	8.182	529.8	23.4	

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2017-05-03-04 Date: 06-05-17
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of open gym at Shankar Nag Park in ward No.04.
Agency	:	Sri N.N Srinivasaiah No.2405, E Block Sahakara Nagar, Banagalore.
Customer's Reference	:	EE(YNM.D)E-PMT-07/W.O/20/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	03-05-17
Sample ID No	:	2017-05-03-04-02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	814	814	5.4	94.6	90-100
3	20 mm	6451	7265	48.4	51.6	30-70
4	10 mm	6014	13279	88.5	11.5	10-35
5	4.75 mm	1385	14664	97.8	2.2	0-5
6	Pan	336	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-03-04** **Date: 06-05-17**

Sample ID No : 2017-05-03-04-02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.7	
3	Specific Gravity	2.58	–
4	Bulk Density(Loose) (Kg/l)	1.49	–
5	Bulk Density(Compacted) (Kg/l)	1.54	–
6	Water Absorption(%)	0.28	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2017-05-03-04 Date: 06-05-17
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of open gym at Shankar Nag Park in ward No.04.
Agency	:	Sri N.N Srinivasaiah No.2405, E Block Sahakara Nagar, Banagalore.
Customer Reference	:	EE(YNM.D)E-PMT-07/W.O/20/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-17
Sample ID No	:	2017-05-03-04-02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	03-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	421	421	8.4	91.6	90-100
3	10 mm	2472	2893	57.9	42.1	25-55
4	4.75 mm	1951	4844	96.9	3.1	0-10
5	Pan	156	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-05-03-04 Date: 06-05-17

Sample ID No : 2017-05-03-04-02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.1	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.58	–
6	Water Absorption(%)	0.25	–
7	Aggregate crushing Value(%)	23.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.7	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2017-05-03-04
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, **Date: 05-05-17**
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of open gym at Shankar Nag Park in ward No.04.
Agency	:	Sri N.N Srinivasaiah No.2405, E Block Sahakara Nagar, Banagalore.
Customer's Reference	:	EE(YNM.D)E-PMT-07/W.O/20/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-17
Sample ID No	:	2017-05-03-04/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	04-05-17

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.25	–
2	Finess by Air permeablity method (m^2/kg, Min)	292.1	225m^2/kg, Min
3	Density (gm/cc)	3.18	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

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Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL|
GEO TECHNICAL| PROJECT MANAGEMENT| SURVEYING SERVICES |

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-03-04** **Date: 01-06-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of open gym at Shankar Nag Park in ward No.04.
Agency	:	Sri N.N Srinivasaiah No.2405, E Block Sahakara Nagar, Banagalore.
Customer's Reference	:	EE(YNM.D)E-PMT-07/W.O/20/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-05-17
Sample ID No	:	2017-05-03-04/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	04-05-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harshitha

AE W4

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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****End of Report****